



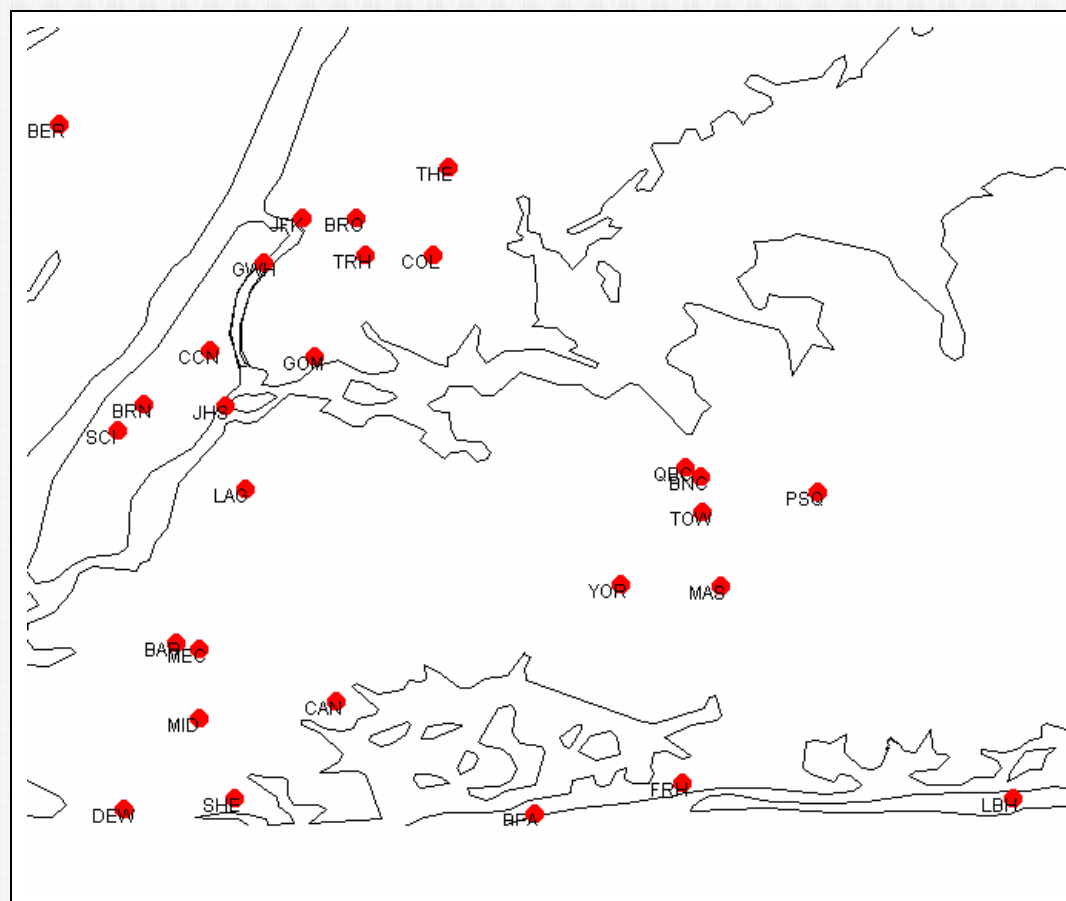
**MUSPIN/NASA City College of New York
Network Resource and Training Site**



-
- MUSPIN-funded weather-data network in the NYC Metropolitan Area
 - Supports faculty and student research and curriculum integration
 - Inter-disciplinary program in Meteorology, Earth Science, Environmental Science and Computer Science
 - Spans K-12 and undergraduate levels



NYC Weather Network(partial)





Motivation

- Leverage MUSPIN's technology investment
- Provide a common program
- Provide an entry-level platform for the exploration of broader issues:
 - local weather -> regional and synoptic scale patterns and features
 - microclimate -> global climate

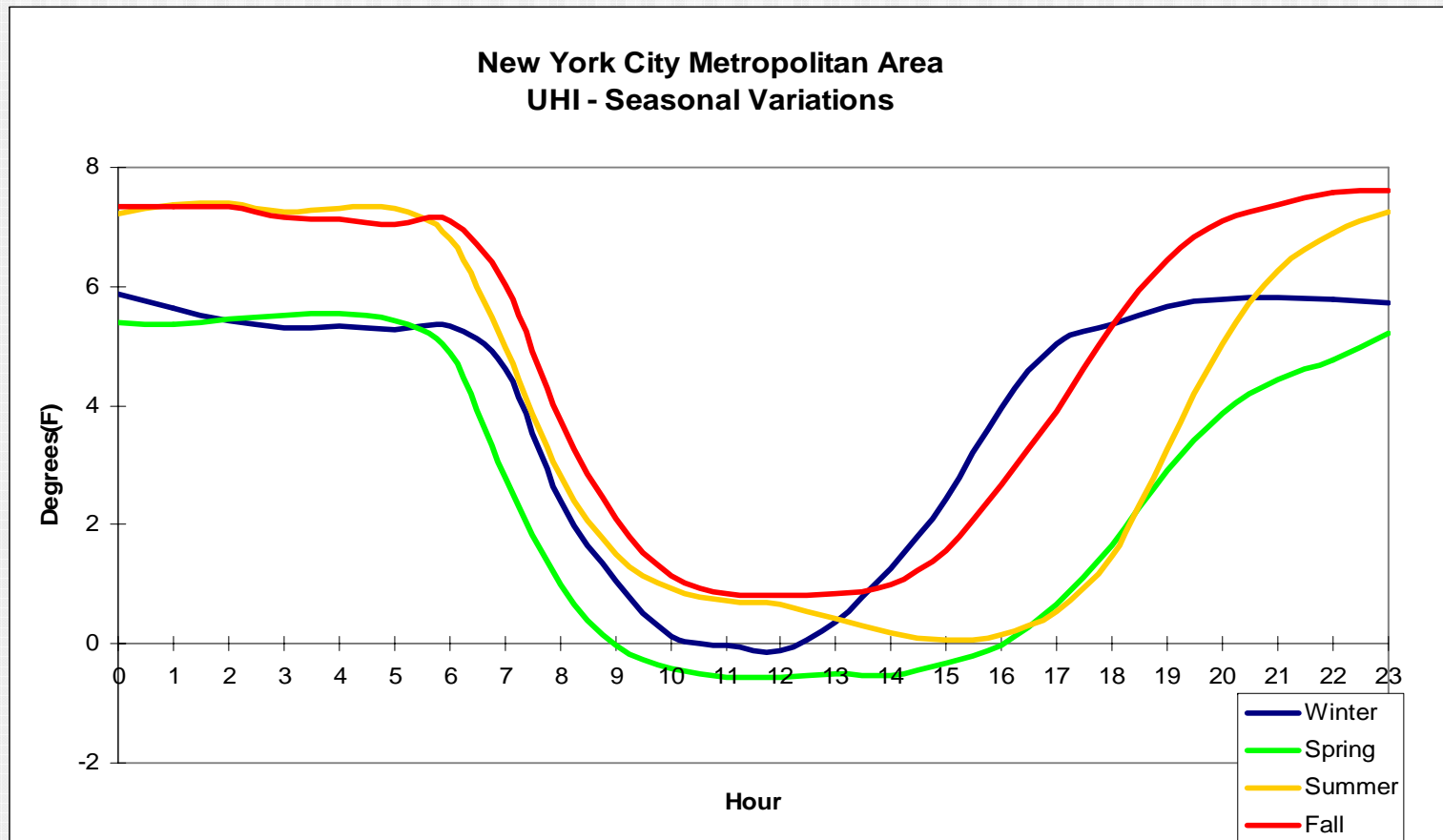


Project Activities - College

- ❑ Undergraduate Curriculum Integration in Earth Science, Meteorology and Computer Sciences
 - Illustrating Basic Weather Concepts
 - Visualization of Surface and Satellite Data
- ❑ Faculty/Student Research Investigations
 - NYC Urban Heat Island
 - Seabreeze circulation
 - Impact of Nor'easters
 - Intelligent Engines for Data Retrieval

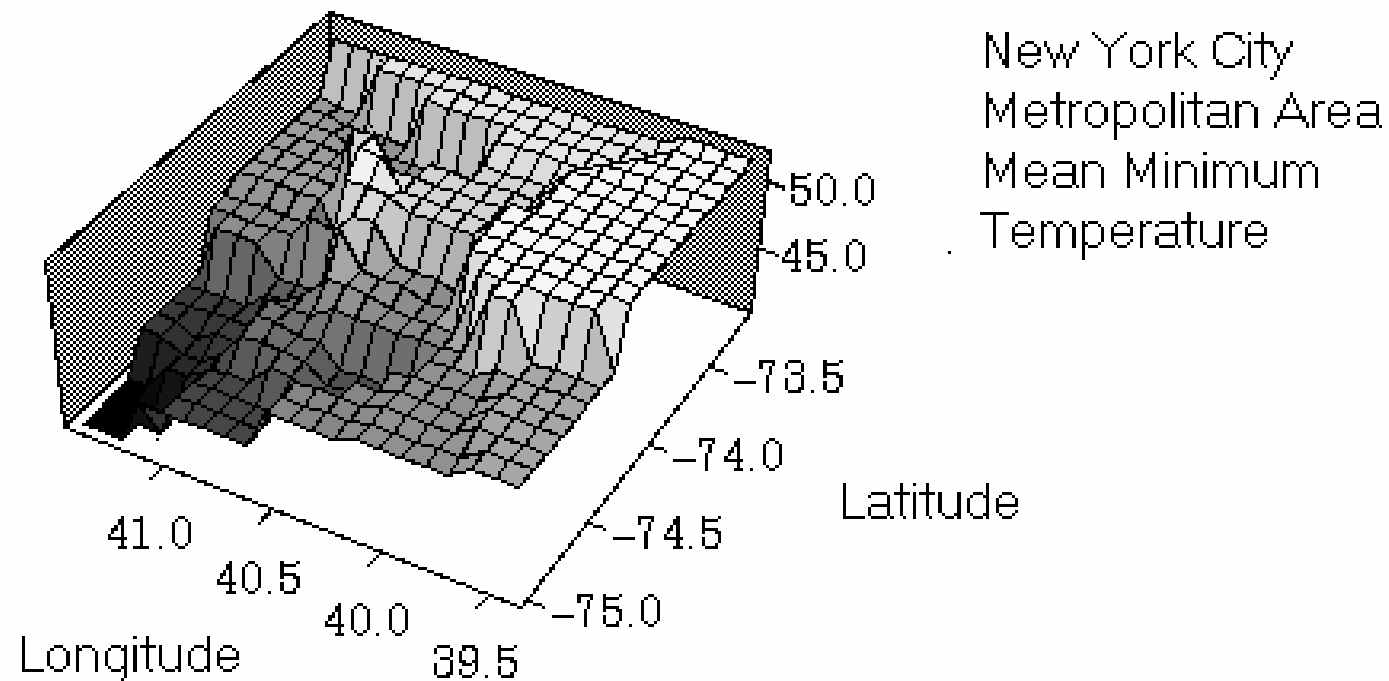


UHI Seasonal Variations



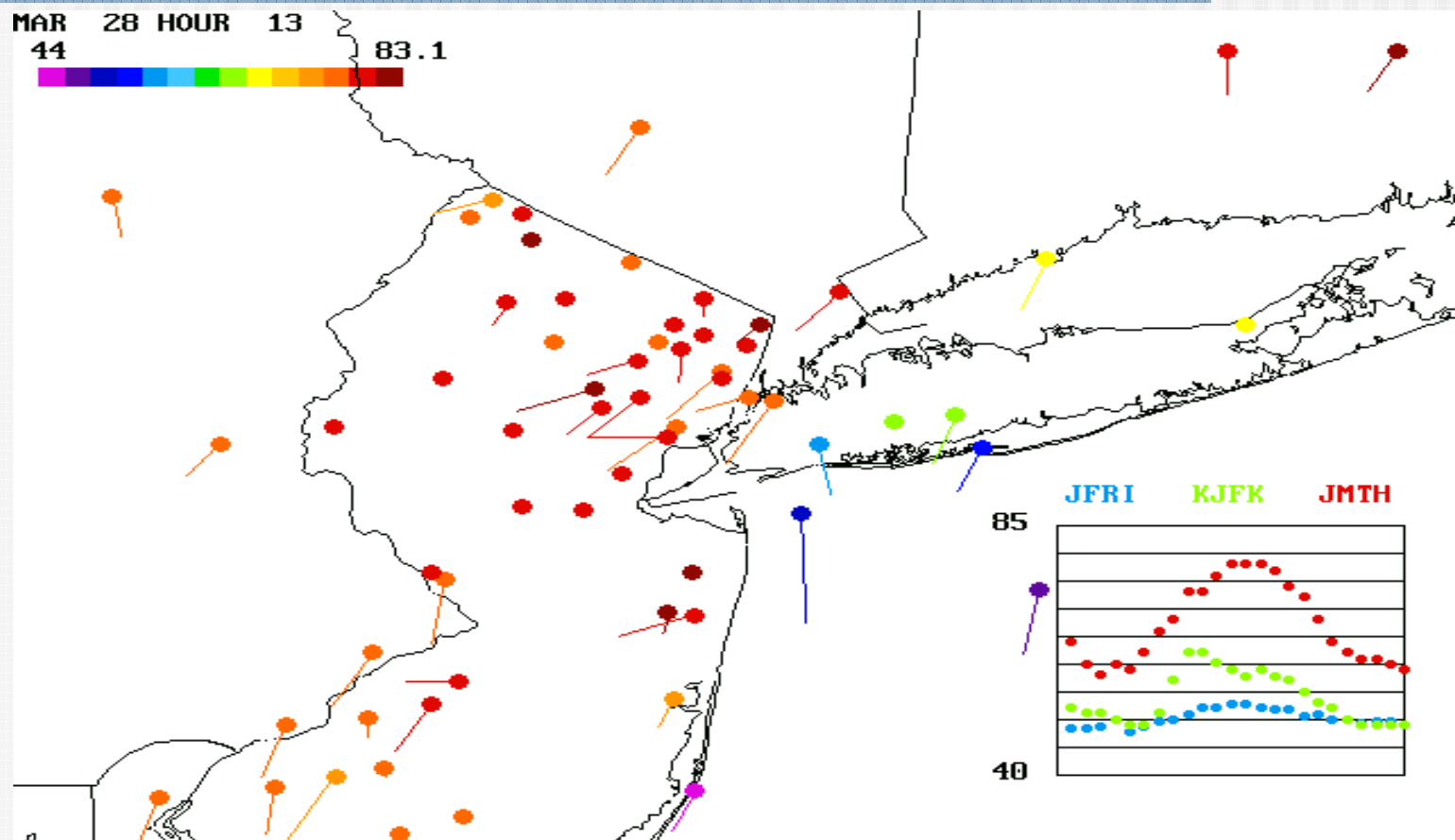


Regional Mean Minimum Temperatures





NJ Weather Network





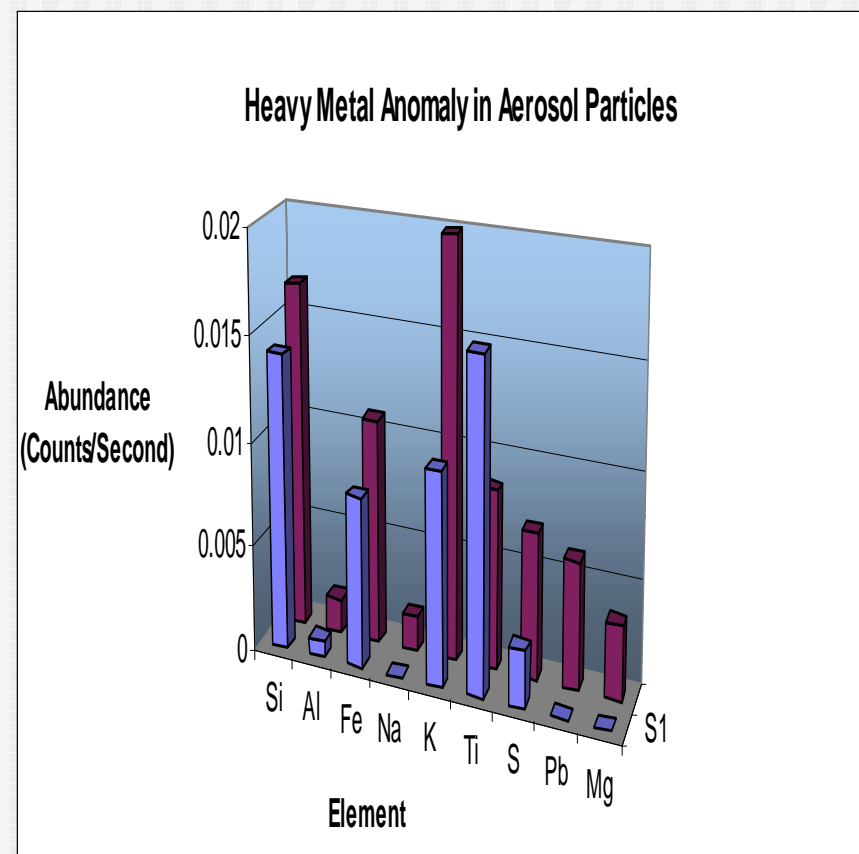
Collaborations

- Hand-held polarimeter project – LaGuardia Community College
- Local sunphotometer network – Medgar Evers College
- Pollen distribution project – George Washington HS



Relating Weather Patterns to Aerosol Content in NYC and NJ

- Climate modeling of aerosol particles
- Aerosol transport of heavy metals
- Student involvement in collection, mapping and interpretation
- Integration in inter-disciplinary GIS course





Project Activities – K-12

- Weather Watchers
- Integration of weather modules in Earth Science courses
- High School Research Investigations
- Staff Development for K-12 teachers
- Graduate content-based courses



Partners

- NWS
- NJ State Climatologist's Office, Rutgers University
- Institute for Climate and Planets/GISS
- New York Board of Education
- MASTAP/Medgar Evers College
- Signals of Spring, US Satellite, Inc.

